EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	571	386/55	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L2	0	L1 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L3	1802	345/629	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L4	1971	345/619	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L5	3421	L4 or L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L6	2	345/619-629	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L7	5	L5 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48

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L8	357	(E-card$1 (E near2 card$1)) & (((add$3 annotat$3) near3 link$1 URL))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L9	8	L8 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L10	2	("5337362").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L11	131050	345/619, "629"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L12	2	("66208436"|"5880740").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L13	479	715/512	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L14	197	L13 & (((add$3 annotat$3) near2 link$1 URL))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48

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L15	1	L14 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L16	32	("5337362"|"5444779"|"5495581"|"5640193"|"5804803"|"5838313"|"5838458"|"5880740"|"5893126"|"5905248"|"6076734"|"6208436"|"6256638"|"6448979"|"6572661"|"6674923").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L17	33	L15 or L16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L18	5	L17 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L19	511	L13 or L16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L20	2	("6448979").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L21	0	345/619,629	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48

EAST Search History

L22	100	715/741	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L23	1	L22 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L24	0	L13 & L16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L25	0	L1 & (E-card$1 (E near2 card$1)) & (((add$3 annotat$3) near3 link$1 URL))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L26	2	("6208436").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L27	4	L16 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L28	0	L14 & (multimedia same link$3 same ((paper physical printted) adj (document$1 media medium object$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48

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L29	198	L13 & (((add$3 annotat$3) near3 link$1 URL))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L30	4739	358/474	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L31	0	L30 & (multimedia same link$3 same (paper physical printted))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 09:48
L32	2	("5337362").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 10:05
L33	11	("5692073"|"6081261"|"6326946"|"6330976"|"6356923").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/19 10:05

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1 Visual information and collaboration: Improving interpretation of remote gestures with telepointer traces

Carl Gutwin, Reagan Penner

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperati work CSCW '02**

Publisher: ACM Press

Full text available: pdf(355.51 KB) Additional Information: full citation, abstract, references, citings, index terms

Gestural communication is an important part of shared work, both in face-to-face settings and distributed environments. However, gestures in groupware are often difficult to see and interpre because of disruptions to their motion caused by network jitter. One way to improve the visibilit of remote gestures is by using traces-visualizations of the last few moments' of a remote pointe motion. We carried out an experiment to test the effectiveness of traces in helping people interp gestures ...

Keywords: consequential communication, gesture, groupware usability, jitter, network delay, telepointer traces

2 Virtual and augmented reality: FingARtips: gesture based direct manipulation in Augmente Reality

Volkert Buchmann, Stephen Violich, Mark Billinghurst, Andy Cockburn

June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04**

Publisher: ACM Press

Full text available: pdf(590.58 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a technique for natural, fingertip-based interaction with virtual objects in Augmented Reality (AR) environments. We use image processing software and finger- and hanc based fiducial markers to track gestures from the user, stencil buffering to enable the user to se their fingers at all times, and fingertip-based haptic feedback devices to enable the user to feel virtual objects. Unlike previous AR interfaces, this approach allows users to interact with virtual content using ...

Keywords: Augmented Reality, gesture interaction, occlusion

3 Flow-insensitive type qualifiers

Jeffrey S. Foster, Robert Johnson, John Kodumal, Alex Aiken

November 2006 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volu 28 Issue 6

Publisher: ACM Press

Full text available: pdf(910.93 KB) Additional Information: full citation, abstract, references, index terms

We describe flow-insensitive type qualifiers, a lightweight, practical mechanism for specifying ar checking properties not captured by traditional type systems. We present a framework for addir new, user-specified type qualifiers to programming languages with static type systems, such as and Java. In our system, programmers add a few type qualifier annotations to their program, ar automatic type qualifier inference determines the remaining qualifiers and checks the annotatio for consisten ...

Keywords: Type qualifiers, const, constraints, security, static analysis, taint, types

4 Eraser: a dynamic data race detector for multithreaded programs

Stefan Savage, Michael Burrows, Greg Nelson, Patrick Sobalvarro, Thomas Anderson

November 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(136.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Multithreaded programming is difficult and error prone. It is easy to make a mistake in synchronization that produces a data race, yet it can be extremely hard to locate this mistake during debugging. This article describes a new tool, called Eraser, for dynamically detecting dat races in lock-based multithreaded programs. Eraser uses binary rewriting techniques to monitor every shared-monory reference and verify that consistent locking behavior is observed. We pres several case studies ...

Keywords: binary code modification, multithreaded programming, race detection

5 An analysis of a resource efficient checkpoint architecture

Haitham Akkary, Ravi Rajwar, Srikanth T. Srinivasan

December 2004 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 1 Is 4

Publisher: ACM Press

Full text available: pdf(757.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Large instruction window processors achieve high performance by exposing large amounts of instruction level parallelism. However, accessing large hardware structures typically required to buffer and process such instruction window sizes significantly degrade the cycle time. This pape proposes a novel checkpoint processing and recovery (CPR) microarchitecture, and shows how t implement a large instruction window processor without requiring large structures thus permitti a high clock frequency ...

Keywords: Computer architecture, checkpoint architecture, high-performance computing, scal architecture

6 Incremental and demand-driven points-to analysis using logic programming

Diptikalyan Saha, C. R. Ramakrishnan

July 2005 **Proceedings of the 7th ACM SIGPLAN international conference on Principles an practice of declarative programming PPDP '05**

Publisher: ACM Press

Full text available: pdf(225.95 KB) Additional Information: full citation, abstract, references, index terms

Several program analysis problems can be cast elegantly as a logic program. In this paper we show how recently-developed techniques for incremental evaluation of logic programs can be refined and used for deriving practical implementations of incremental program analyzers. Incremental program analyzers compute the changes to the analysis information due to small changes in the input program rather than re-analyzing the program. Demand-driven analyzers compute only the information requested by th ...

Keywords: demand-drive analysis, incremental analysis, logic programming, pointer analysis

7 An evaluation of staged run-time optimizations in DyC

Brian Grant, Matthai Philipose, Markus Mock, Craig Chambers, Susan J. Eggers

May 1999 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1999 conference on Programming language design and implementation PLDI '99**, Volume 34 Issue 5

Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

Previous selective dynamic compilation systems have demonstrated that dynamic compilation c achieve performance improvements at low cost on small kernels, but they have had difficulty scaling to larger programs. To overcome this limitation, we developed DyC, a selective dynamic compilation system that includes more sophisticated and flexible analyses and transformations. DyC is able to achieve good performance improvements on programs that are much larger and more complex than the kernels. We ...

8 Session 2: An empirical study of the robustness of MacOS applications using random testi

Barton P. Miller, Gregory Cooksey, Fredrick Moore

July 2006 **Proceedings of the 1st international workshop on Random testing RT '06**

Publisher: ACM Press

Full text available: pdf(165.21 KB) Additional Information: full citation, abstract, references, index terms

We report on the fourth in a series of studies on the reliability of application programs in the fac of random input. Over the previous 15 years, we have studied the reliability of UNIX command and X-Window based (GUI) applications and Windows applications. In this study, we apply our f testing techniques to applications running on the Mac OS X operating system. We continue to u simple, or even simplistic technique: unstructured black-box random testing, considering a failu to be ...

Keywords: fuzz, random testing

9 Posters--visualization: v4v: a View for the Viewer

Mira Dontcheva, Steven M. Drucker, Michael F. Cohen

November 2005 **Proceedings of the 2005 conference on Designing for User eXperience DUX '05**

Publisher: AIGA: American Institute of Graphic Arts

Full text available: pdf(431.73 KB) Additional Information: full citation, abstract, references

We present a **View for the Viewer** (v4v), a slide viewer that focuses on the needs of the viewe of a presentation instead of the presenter. Our design centers on representing the deck of slide a stack embedded in a 3-D world. With only single button clicks, the viewer can quickly and eas navigate the deck of slides. We provide four types of annotation techniques and have designed synchronization mechanism that makes it easy for the viewer to move in and out of sync with tl presen ...

Keywords: note taking, presentations, slide representation, user interface design, visualization

10 Articles: A context-aware methodology for very small data base design

C. Bolchini, F. A. Schreiber, L. Tanca
March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(381.70 KB) Additional Information: full citation, abstract, references, citings

The design of a Data Base to be resident on portable devices and embedded processors for professional systems requires considering both the device memory peculiarities and the mobility aspects, which are an essential feature of the embedded applications. Moreover, these devices a often part of a larger Information System, comprising fixed and mobile resources. We propose a complete methodology for designing Very Small Data Bases, from the identification of the devic resident portions down to ...

11 Mix ten years later

Neil D. Jones
June 1995 **Proceedings of the 1995 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation PEPM '95**

Publisher: ACM Press

Full text available: pdf(1.76 MB) Additional Information: full citation, references, citings, index terms

12 Patterns: Micro pattern evolution

Sunghun Kim, Kai Pan, E. James Whitehead
May 2006 **Proceedings of the 2006 international workshop on Mining software repositori MSR '06**

Publisher: ACM Press

Full text available: pdf(654.17 KB) Additional Information: full citation, abstract, references, index terms

When analyzing the evolution history of a software project, we wish to develop results that generalize across projects. One approach is to analyze design patterns, permitting characteristi of the evolution to be associated with patterns, instead of source code. Traditional design patte are generally not amenable to reliable automatic extraction from source code, yet automation is crucial for scalable evolution analysis. Instead, we analyze "micro pattern" evolution; patterns whose abstracti ...

13 Animation: SnakeToonz: a semi-automatic approach to creating cel animation from video

Aseem Agarwala
June 2002 **Proceedings of the 2nd international symposium on Non-photorealistic animat and rendering NPAR '02**

Publisher: ACM Press

Full text available: pdf(639.81 KB) Additional Information: full citation, abstract, references, citings, index terms

SnakeToonz is an interactive system that allows children and others untrained in cel animation t create two-dimensional cartoons from video streams and images. The ability to create cartoons traditionally been limited to professional animation houses and trained artists. SnakeToonz aims give anyone with a video camera and a computer the ability to create compelling cel animation. This is done by combining constraints of the cartooning medium with simple user input and analysis of that in ...

14 A model of keyboard configuration requirements

Shari Trewin, Helen Pain
January 1998 **Proceedings of the third international ACM conference on Assistive technolog Assets '98**

Publisher: ACM Press
Full text available: txt(44.76 KB) Additional Information: full citation, references, citings, index terms

Keywords: Bounce Keys, Repeat Keys, Sticky Keys, empirical studies, keyboard configuration, keyboards, motor disabilities, user modelling

15 Query processing for relational data: Supporting ad-hoc ranking aggregates
Chengkai Li, Kevin Chen-Chuan Chang, Ihab F. Ilyas
June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Managemer of data SIGMOD '06**
Publisher: ACM Press
Full text available: pdf(344.23 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a principled framework for efficient processing of ad-hoc *top-k* (ranking) aggregate queries, which provide the *k* groups with the highest aggregates as results. Essential support of such queries is lacking in current systems, which process the queries in a naïve materialize-group-sort scheme that can be prohibitively inefficient. Our framework is based on three fundamental principles. The Upper-Bound Principle dictates the requirements of early pruning, and ...

Keywords: OLAP, aggregate query, decision support, ranking, top-k query processing

16 Static single assignment form for machine code
Allen Leung, Lal George
May 1999 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1999 conference on Programming language design and implementation PLDI '99**, Volume 34 Issue 5
Publisher: ACM Press
Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

Static Single Assignment (SSA) is an effective intermediate representation in optimizing compile However, traditional SSA form and optimizations are not applicable to programs represented as native machine instructions because the use of dedicated registers imposed by calling conventic the runtime system, and target architecture must be made explicit. We present a simple schem for converting between programs in machine code and in SSA, such that references to dedicate physical registers ...

17 Array morphology
Robert Bernecky
September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conferenc on APL APL '93**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Array morphology is the study of the form, structure, and evolution of arrays. An *array annotati* for a program written in an applicative array language is an abstract syntax tree for the prograr amended with information about the arrays created by that program. Array notations are useful the production of efficient compiled code for applicative array programs. Array morphology is shown to be an effective compiler writer's tool. Examples of an array annotator in action are pre

Results 1 - 17 of 17